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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,256	09/08/2003	Anbo Wang	3811-007-27	8598	
7590 07/29/2005		EXAMINER			
Supervisor, Patent Prosecution Services			KIANNI, KAVEH C		
PIPER RUDNICK LLP 1200 Nineteenth Street, N.W. Washington, DC 20036-2412			ART UNIT	PAPER NUMBER	
			2883		
			DATE MAILED: 07/29/2009	DATE MAILED: 07/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

H'A		
•	Application No.	Applicant(s)
Office Action Summary	10/656,256	WANG, ANBO
Office Action Summary	Examiner	Art Unit
The MAILING DATE of this communication app	Kianni C. Kaveh	2883
Period for Reply	pears on the cover sheet with the (correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed /s will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).
Status	,	
1) Responsive to communication(s) filed on 25 M 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-41 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-41 are subject to restriction and/or expressions.	wn from consideration.	•
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se iion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		,
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau	s have been received. s have been received in Applicati rity documents have been receive	ion No
* See the attached detailed Office action for a list	of the certified copies not receive	ed.
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D	
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08). Paper No(s)/Mail Date		Patent Application (PTO-152)

Application/Control Number: 10/656,256

Art Unit: 2883

DETAILED ACTION

Applicant's election with traverse of claims 25-41 in a paper submitted on 5/25/05 is acknowledged. However, applicant has amended the previously restricted claims and submitted a new claim 41 that would require a new restriction requirement as follows:

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 25-31 and 41, drawn to forming a mask over an optical fiber, the optical fiber having a core surrounded by a cladding, the mask having a single opening; exposing the opening to radiation such that a refractive index of a portion of the fiber corresponding to the opening is changed, classified in class 385, subclass 124.
- II. Claims 32-37, drawn to lunching an optical pulse into an optical fiber, the optical fiber having a plurality of optical sensors formed therein, the optical sensors being spaced apart; and measuring amplitudes of a backward-propagating reflection peaks in the fiber at a plurality of times, each of the times corresponding to a location of one of the plurality of optical, classified in class 385, subclass 12.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such

as forming fiber optical wavelength sensing device used in fiber optical communication for add/drop of specific wavelength channels rather than forming optical fiber through the steps of masking and changing refractive index of the fiber optic material. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention:

- A. Claims 1-18, drawn to a method including the steps of forming an optical fiber sensor comprising/including the steps of a first end of a first optical fiber with a film, the film having a refractive index different from the first optical fiber; and splicing a second fiber to the first fiber, the second fiber having a refractive index different from the film.
- B. Claims 10-18, drawn to a method including the steps of forming an optical fiber sensor comprising/including the steps of exposing the first end and the second end to a vapor of a dielectric material such that dielectric material is deposited in the gap.
- C. Claims 19-24, drawn to a method including the steps of forming an optical fiber sensor including the steps of removing a portion of the cladding to form a void, the void having a first surface and a second surface, the first and second surfaces being parallel.

- D. Claims 25-31 and 41, drawn to a method including the steps of forming an optical fiber sensor including the steps of forming a mask over an optical fiber, the optical fiber having a core surrounded by a cladding, the mask having a single opening; exposing the opening to radiation such that a refractive index of a portion of the fiber corresponding to the opening is changed.
- E. Claims 32-37, drawn to a method including the steps of lunching an optical pulse into an optical fiber, the optical fiber having a plurality of optical sensors formed therein, the optical sensors being spaced apart; and measuring amplitudes of a backward-propagating reflection peaks in the fiber at a plurality of times, each of the times corresponding to a location of one of the plurality of optical.

.Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was made to Mr. Heintz on 7/25/05 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Cyrus Kianni whose telephone number is (571) 272-2417.

The examiner can normally be reached on Monday through Friday from 8:30 a.m. to 6:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font, can be reached at (571) 272-2415.

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for formal communications intended for entry)

or:

Hand delivered responses should be brought to Crystal Plaza 4, 2021 South Clark Place, Arlington, VA., Fourth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0956.

K. Cyrus Kianni

Primary Patent Examiner Group Art Unit 2883

July 25, 2005